Approved For Release 2001/11/21 : CIA-RDP80-00810A003900390008-9 25X1A CLASSIFICATION SECRET/CONTROL - U.S. AND 25X1A CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT CD NO 25X1A 19 April 1954 DATE DISTR Germany Meeting of the German Geophysical Society NO. OF PAGES NO OF ENCLS. (USTED BELOW)

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- 1. The 19th meeting of the German Geophysical Society was held in Harmon, fire 6 Setober through 10 Setober 1953. The meeting was divided into the cellbraid. The first section consisted of three days of societilis incharge at the Technische Hochschule in Mannover. The second section was an exhibition of secondary of equipment held on the grounds of the firm Schludberger-Verfahren, Johnstonman Landetresse 602, Hannover The third section was a field trip to it off fields in the unighborhood of Harmover with special omphasis on demonstration of new second reasons were deviced by the Elwardth Company.
- 2. The following papers were presented:
  - a. A Argence, Freitung: The Computation of the True Electron Density in the Tomosphere.
  - b. 4. Serg, Cologne: Critical Remarks Consorring the The United times of Local Earthquakes.
  - e. d. Bibl, Freiburg: Distantances of High Propagation Space in the homosphere
  - d. R. Borifeld, Westerselle: Comments on the Determinables of Densing According to the Methods of Methods.
  - e. O. Burkard, Graz: Recent Findings Concerning the Londspheric Follager.
  - f. E. David, Hamburg: The Behavior of Materials Under Pressures Comparable of Those of the Interior of the Earth.
  - g. G. Fanselau, Niemegk: On New Work at the Georgesette Observatory in Niemegk.
  - h. H. Flatze, Hennover: Prospecting and Delimitation of Louisian Decurrences by hears of Geo-electric Measurement.
  - i. E. Flander, Hannover: The Laterolog, a New Resistance-Type Measuring Esvice
  - j. O. Foertsch, Munich: The Cause of the Absorption of Elastic Mayes.

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- k. A. Hahn, Hannover: The Measurement of the Vertical Gradients of Z with the Field Magnetometer.
- 1. O. Kappalmover, Hannover: Research in the Earth's Surface Temperature:
- m. R. Lauterbach, Leipzig: The Question of the declogical Meaning of Small decomposite Anomalies.
- n. K. Luchner, Hannever: The Scintillation Counter for the Determination of Different Gamma-ways.
- o. M. Martin, Sana: The Wave Front Process and the Seismic Report.
- p. K. Rawer and E. Argence, Freiburg: The Development of the E-layer in the Ionosphere.
- 4. H. Reich, Manich: Concerning the Propagation of Seismic Impulses in the Juras of Southern Germany.
- T. W. Schumann, Barlin: A Discussion of the Developmental Work in the Arca of "Construction-geophysics,"
- s. K. Strobach, Samburg: Systematic Transmission Time Differences of the P-phase for a Few European and North American Stations.
- to U. Vidal, Manuover, Munich: Report of Selsmit Measurements in the Austrian Airs.
- W. I. Woodt, Mannover: Potasb Determination with the Geiger Counter.
- #- W. Westerhausen, Elmehorn: Concerning the Location of Microseismic Disturbance Centers.
- Now North at the Nisneck Observatory," presented by Dr. Gerhard Fanselau, invoked the groupest interest. It was particularly interesting because many of the extendists in attendance and been unable to maintain contact with their former exclosures from Potskim, belowing, Present and Jene and they welcomed, which contedly, may have of the work curved on at the observatories and institutes where they used worked. Dr. Fanselau stated that plans for the establishment of new bases for the measurement of the horizontal and vertical intensities of the marth's magnetian had existed for many years but not until this year was the work actually until due under his direction at hisways. Another problem handled at Minnack was the maintenence of a constant magnetic field over a relatively large tion.
- is 1933 Fermulae developed an apparatus to time and count the master of current inclines set up by a submide megant. Within the last year he has improved the device by substituting an electric flash for incendences in light in the exposure of the photographic plates so that the pictured indicator is note sharply outlined.
- Resealan also discussed the new field magnetometer which employs a hard rather than a knife edge for the magnet dystem. To strongly emphasized his accomplishment to combining the measurements of the bericontal and marrials components of the results measurements.
  - In contrast to the matrod used at the Wingst observatory, Farselsu has developed a fairly seed system for otherniar the time derivatives of the vertical and invested intensition. At Wingst, the measurements are used with the relatively estal notice for many sindings and with soft iron covers at Mismesk, Farselsu into Aleberta a first to a faces contains a large creat producing, in affect, a single wholing horizontal execute or look. A current is induced in it through the ways the contains of the vertical community of the magneties. For the berigontal

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time derivative the circuit will be located around one of the observatory buildings.

Personnel at the Niemegh observatory are also interested in the measurement of whith current between two electrodes located relatively close together. E. Schmidt reported in the discussion following Fancelau's talk that he had developed a new mathod of measuring magnetic field strength making use of proton resonance. The method is a complicated one and the advantages did not appear obvious, repucially in view of the fact that any natural magnetic field can be multified by an artificial one and the artificial field can be determined with great exercises.

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